



ORIGINAL  
(Red)

**TRIP Report**  
**SABA Parcel 66**  
**Maple Point, Bucks County, PA**  
**8 January 1997**

**Prepared for**  
**U. S. Environmental Protection Agency Region III**  
**Fund Removal Section**  
**Philadelphia, PA**

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# TRIP REPORT

SABA Parcel 66  
Maple Point, Bucks, PA

TDD No. 9604-05  
Contract No. 68-S5-3002

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## 1.0 INTRODUCTION

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On 23 and 26 September, 1996, the Roy F. Weston, Inc. (WESTON), Site Assessment Technical Assistance (SATA) Team was directed by the U.S. Environmental Protection Agency (EPA) On-Scene Coordinator (OSC) Steve Jarvela to conduct a preliminary assessment at the SABA Parcel 66 located in Maple Point, Bucks, PA.

## 2.0 BACKGROUND

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### 2.1 Site Description

The Site encompasses approximately 50 acres, and is adjacent to residential areas, agricultural areas and several schools. The Site consists primarily of forestlands and areas of wetland vegetation. Portions of the Site contain standing liquid, which is indicative of wetlands habitat. Several roads and trails cross the property, and there is evidence of trash dumping and other improper disposal of tires/debris throughout the Site. The Site lies adjacent to the Maple Point housing development. Parcel 66 was a much larger tract of land owned by SABA. The subsequent subdivision of the property resulted in two pieces of property, one owned privately, and one deeded to the township as open space that serves as the storm water management area for the development.

### 2.2 Background

The Site is alleged to be a dumping area for the builders of the Maple Point housing development, which borders the SABA Parcel 66 property on the north and east sides. SABA was a waste company that operated in the 1960's and 1970's. Aerial photography dating to 1981 identifies areas of suspected dumping on the Site and in the Maple Point housing development. The photography shows disposal trenches and roads leading from the construction operations areas into the SABA Parcel 66 areas. Aerial photographs taken in 1985 show three separate disposal areas, which contain tires, debris, and trash. These areas are still visible in current photographs and were observed during Site visits.

## 3.0 SITE ACTIVITIES

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On 23 and 26 September, 1996, an EPA multimedia sampling activity, led by OSC Steve Jarvela, was initiated to collect data regarding site conditions and their relevance to a number of environmental statutes enforced by EPA.

### 3.1 Site Conditions

SABA Parcel 66 is in a flat, hardwood swampy area. Soil is predominately clay under a small loam layer. There were no signs of stressed vegetation on site.

### 3.2 Meteorological Conditions

The ambient meteorological conditions during the 23 and 26 September, 1996, inspection as reported by the National Weather Service radio are summarized below:

Table 1  
Meteorological Conditions

Temperature	68°
Winds	0-5 mph NNE
Conditions	clear and mild
Humidity	76%

### 3.3 Sampling Activities

During the 23 and 26 September sampling SATA collected 16 soil, 5 air, and 1 water sample to be analyzed for volatile organics (VOA), base, neutral, acid extractable (BNA), and target analyte list (TAL) metals. All samples were collected from representative areas as designated by the sampling plan to detect any suspected contamination.

The soil samples results from the SABA 66 parcel are summarized in attachment 1, Soil Samples. The water sample results obtained from 461 Atkinson Drive are summarized in attachment 2, Water Samples. The soil gas results obtained from 505 and 515 Maple Point Drive are summarized in attachment 3, Air Samples. The data quality review for the sampling event is included as attachment 4, Data Quality Report.

## 4.0 CONCLUSIONS

The soil samples results were all under the EPA Risk Based Concentrations (RBC) as established by Roy Smith, EPA toxicologist, for residential exposure through ingestion of contaminated soils.

The water sample showed elevated levels of metals, which were over the RBC's for drinking water. Since this sample was taken from a monitoring well, and is not utilized

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for drinking water purposes, SATA can not accurately define a level of risk (if any) for human exposure to residential populations.

The air samples concentrations were all under established RBC's. Since these samples were soil gas samples, and would be more concentrated than ambient air samples, the risk to residential populations is considered small. The volatile components in the soil gas did not fingerprint with the SABA 66 soil samples, so it is unlikely that the contaminants detected in the residences soil gas were migrating from the SABA 66 parcel.

ATTACHMENTS:    1 - Soil Samples  
                  2 - Water Samples  
                  3 - Air Samples  
                  4 - Data Quality Report

SABA Parcel 66  
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ATTACHMENT 1 SOIL SAMPLES

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Soil Samples  
SABA 66

TCL VOA

SS=Soil Sample

Concentration Units: UG/KG

CAS NO.	COMPOUND	SS01		SS02		SS03		SS04		SS05	
		Concentration	Q								
74-87-3	Chloromethane	15	U	12	U	13	U	13	U	14	
74-83-9	Bromomethane	15	U	12	U	13	U	13	U	14	
75-01-4	Vinyl Chloride	15	U	12	U	13	U	13	U	14	
75-00-3	Chloroethane	15	U	12	U	13	U	13	U	14	
75-09-2	Methylene Chloride	15	U	12	U	13	U	13	U	14	
67-64-1	Acetone	11	J	7	J	13	U	13	U	22	
75-15-0	Carbon Disulfide	15	U	12	U	13	U	13	U	14	
75-35-4	1,1-Dichloroethene	15	U	12	U	13	U	13	U	14	
75-34-3	1,1-Dichloroethane	15	U	12	U	13	U	13	U	14	
540-59-0	1,2-Dichloroethene (total)	15	U	12	U	13	U	13	U	14	
67-66-3	Chloroform	15	U	12	U	13	U	13	U	14	
107-06-2	1,2-Dichloroethane	15	U	12	U	13	U	13	U	14	
78-93-3	2-Butanone	15	U	12	U	13	U	13	U	14	
71-55-6	1,1,1-Trichloroethane	15	U	12	U	13	U	13	U	14	
56-23-5	Carbon Tetrachloride	15	U	12	U	13	U	13	U	14	
75-27-4	Bromodichloromethane	15	U	12	U	13	U	13	U	14	
78-87-5	1,2-Dichloropropane	15	U	12	U	13	U	13	U	14	
10061-01-5	cis-1,3-Dichloropropene	15	U	12	U	13	U	13	U	14	
79-01-6	Trichloroethene	15	U	12	U	13	U	13	U	14	
124-48-1	Dibromochloromethane	15	U	12	U	13	U	13	U	14	
79-00-5	1,1,2-Trichloroethane	15	U	12	U	13	U	13	U	14	
71-43-2	Benzene	15	U	12	U	13	U	13	U	14	
10061-02-6	trans-1,3-Dichloropropene	15	U	12	U	13	U	13	U	14	
75-25-2	Bromoform	15	U	12	U	13	U	13	U	14	
108-10-1	4-Methyl-2-Pentanone	15	U	12	U	13	U	13	U	14	
591-78-6	2-Hexanone	15	U	12	U	13	U	13	U	14	
127-18-4	Tetrachloroethene	15	U	12	U	13	U	13	U	14	
79-34-5	1,1,2,2-Tetrachloroethane	15	U	12	U	13	U	13	U	14	
108-88-3	Toluene	15	U	12	U	13	U	13	U	14	
108-90-7	Chlorobenzene	15	U	12	U	13	U	13	U	14	
100-41-4	Ethylbenzene	15	U	12	U	13	U	13	U	14	
100-42-5	Styrene	15	U	12	U	13	U	13	U	14	
1330-20-7	Xylene (total)	15	U	12	U	13	U	13	U	14	

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## Soil Samples SABA 66

Soil Samples  
SABA 66

	SS14		SS15		SS16		RBC (EPA,1996)	
Q	Concentration	Q	Concentration	Q	Concentration	Q	Concentration	Q
U	13	U	15	U	13	U	49000	U
U	13	U	15	U	13	U	110000	U
U	13	U	15	U	13	U	340	U
U	13	U	15	U	13	U	31000000	U
U	13	U	15	U	0.6	BJ	85000	U
J	5	J	12	J	13	U	7800000	U
U	13	U	15	U	13	U	7800000	U
U	13	U	15	U	13	U	1100	U
U	13	U	15	U	13	U	7800000	U
U	13	U	15	U	13	U	700000	U
U	13	U	15	U	13	U	100000	U
U	13	U	15	U	13	U	7000	U
U	13	U	15	U	13	U		U
U	13	U	15	U	13	U	2700000	U
U	13	U	15	U	13	U	4900	U
U	13	U	15	U	13	U	10000	U
U	13	U	15	U	13	U	9400	U
U	13	U	15	U	13	U	3700	U
U	13	U	15	U	13	U	58000	U
U	13	U	15	U	13	U		U
U	13	U	15	U	13	U	11000	U
U	13	U	15	U	13	U	22000	U
U	13	U	15	U	13	U	3700	U
U	13	U	15	U	13	U	81000	U
U	13	U	15	U	13	U		U
U	13	U	15	U	13	U	12000	U
U	13	U	15	U	13	U	3200	U
U	13	U	15	U	13	U	16000000	U
U	13	U	15	U	13	U	1600000	U
U	13	U	15	U	13	U	7800000	U
U	13	U	15	U	13	U	16000000	U
U	13	U	15	U	13	U	160000000	U

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**TAL METALS**

SS = Soil Sample

Concentration Units: MG/KG

Soil Samples  
SABA 66

CAS No.	Analyte	SS01		SS02		SS03		SS04		SS05		SS06	
		Concentration	C										
7429-90-5	Aluminum	6640.00		7780.00		9040.00		8590.00		7190.00		10500.00	
7440-36-0	Antimony	8.90	B										
7440-38-2	Arsenic	10.10		3.60		4.50		3.90		4.40		4.00	
7440-39-3	Barium	44.00	B	40.40	B	71.60		65.60		52.00	B	47.80	B
7440-41-7	Beryllium	0.07	B	0.41	B	0.30	B	0.32	B	0.21	B	0.23	B
7440-43-9	Cadmium												
7440-70-2	Calcium	233.00	B	203.00	B	152.00	B	111.00	B	670.00	B	738.00	B
7440-47-3	Chromium	14.20		19.30		12.60		11.90		9.90		14.70	
7440-48-4	Cobalt	3.40	B	4.80	B	4.60	B	3.20	B	4.40	B	2.40	B
7440-50-8	Copper	21.30		7.60		3.40	B	2.90	B	10.10		2.40	B
7439-89-6	Iron	11700.00		16100.00		12000.00		12300.00		10300.00		18500.00	
7439-92-1	Lead	136.00		7.50		26.20		25.60		41.60		12.70	
7439-95-4	Magnesium	596.00	B	1480.00		725.00	B	665.00	B	771.00	B	977.00	B
7439-96-5	Manganese	29.70		50.10		115.00		52.10		118.00		40.20	
7439-97-6	Mercury							0.08	B	0.08	B		
7440-02-0	Nickel	5.10	B	8.00	B	6.20	B	4.90	B			5.40	B
7440-09-7	Potassium	275.00		426.00	B	316.00	B						
7782-49-2	Selenium					0.57	B			0.90	B		
7440-22-4	Silver	1.10	B			1.10	B						
7440-23-5	Sodium			45.80	B	30.40	B	21.00	B	49.40	B	108.00	B
7440-28-0	Thallium	1.30											
7440-62-2	Vanadium	33.50		29.30		21.20		21.50		20.70		25.30	
7440-66-6	Zinc	31.50		25.40		25.50		21.90		46.00		19.30	
	Cyanide												

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Soil Samples  
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SS07		SS08		SS09		SS10		SS11		SS12		SS13		SS14	
Concentration	C														
7700.00		11500.00		10100.00		14200.00		5150.00		7840.00		7650.00		15000.00	
												8.20	B		
5.30		6.80		11.40		5.80		6.30		7.10		4.30		7.70	
51.10		41.70	B	77.70		87.50		46.10	B	45.40	B	39.60	B	48.30	B
0.32	B	0.31	B	0.58	B	0.42	B	0.18	B	0.23	B	0.29	B	0.32	B
637.00	B	574.00	B	1690.00				375.00	B	499.00	B	345.00	B	635.00	B
13.40		21.80		24.10		24.10	B	9.20		13.00		13.20		28.20	
6.00	B	5.10	B	7.20	B	3.60		3.60	B	4.00	B	3.70	B	3.80	B
55.20		98.80		22.80		9.50	B	6.20	B	2.70	B	4.90	B	8.70	
13300.00		24000.00		23700.00		31400.00		10200.00		20000.00		12600.00		28600.00	
22.00		13.40		109.00		9.60		36.80		10.30		21.40		10.90	
913.00	B	1380.00		1470.00		1290.00		585.00	B	811.00	B	877.00	B	1790.00	
162.00		99.70		318.00		34.70		118.00		81.50		35.90		49.40	
				0.11	B	0.06	B								
4.70	B	8.00	B	12.30		8.90	B					5.30	B	8.20	B
213.00	B	334.00	B	382.00	B	363.00	B			245.00	B			515.00	B
1.30		0.65	B	0.75	B	0.70	B	0.57	B						
55.80	B	73.90	B	46.70	B	109.00	B	37.90	B	48.60	B	25.40	B	40.00	B
24.40		36.90		41.20		36.00		20.70		26.30		22.50		40.90	
35.30		24.40		206.00		24.20		34.30		14.70		27.10		27.80	

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Soil Samples  
SABA 66

SS15		SS16		RBC (EPA,1996)
Concentration	C	Concentration	C	Concentration
6590.00		13700.00		78000.00
				31.00
3.20		3.50		23.00
45.70	B	62.90		
0.18	B	0.29	B	0.15
				39.00
301.00	B	523.00	B	
10.80		20.60		78000.00
2.30	U	5.10	B	4700.00
6.40	B	7.60		3100.00
8170.00		15200.00		23000.00
23.50		10.40		400.00
617.00	B	1690.00		
36.30		61.00		1800.00
				23.00
5.40	B	7.30	B	1600.00
249.00	U	323.00	B	
1.10	B			390.00
				390.00
35.50	B	66.00	B	
20.00		30.90		550.00
24.50		26.80		23000.00

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## TCL BNA Extractables

SS=Soil Sample

Concentration Units: (ug/L or ug/Kg) UG/KG

Soil Samples  
SABA 66

CAS No.	COMPOUND	SS01		SS02		SS03		SS04		SS05	
		Concentration	Q								
108-95-2	Phenol	490	U	400	U	440	U	430	U	470	U
111-44-4	bis (2 - Chloroethyl) ether	490	U	400	U	440	U	430	U	470	U
95-57-8	2 - Chlorophenol	490	U	400	U	440	U	430	U	470	U
541-73-1	1,3 - Dichlorobenzene	490	U	400	U	440	U	430	U	470	U
106-46-7	1,4 - Dichlorobenzene	490	U	400	U	440	U	430	U	470	U
95-50-1	1,2 - Dichlorobenzene	490	U	400	U	440	U	430	U	470	U
95-48-7	2 - Methylphenol	490	U	400	U	440	U	430	U	470	U
108-60-1	2, 2' - oxybis (1-Chloropropane	490	U	400	U	440	U	430	U	470	U
106-44-5	4 - Methylphenol	490	U	400	U	440	U	430	U	470	U
621-64-7	N-Nitroso-di-n-propylamine	490	U	400	U	440	U	430	U	470	U
67-72-1	Hexachloroethane	490	U	400	U	440	U	430	U	470	U
98-35-3	Nitrobenzene	490	U	400	U	440	U	430	U	470	U
78-59-1	Isophorone	490	U	400	U	440	U	430	U	470	U
88-75-5	2 - Nitrophenol	490	U	400	U	440	U	430	U	470	U
105-67-9	2, 4-Dimethylphenol	490	U	400	U	440	U	430	U	470	U
111-91-1	bis (2-Chloroethoxy)methane	490	U	400	U	440	U	430	U	470	U
120-83-2	2,4-Dichloropheno	490	U	400	U	440	U	430	U	470	U
120-82-1	1,2,4-Trichlorobenzene	490	U	400	U	440	U	430	U	470	U
91-20-3	Naphthalene	490	U	400	U	440	U	430	U	470	U
106-47-8	4 - Chloroaniline	490	U	400	U	440	U	430	U	470	U
87-68-3	Hexachlorobutadiene	490	U	400	U	440	U	430	U	470	U
59-50-7	4-Chloro-3-methylphenol	490	U	400	U	440	U	430	U	470	U
91-57-6	2-Methylnaphthalene	18	J	400	U	440	U	430	U	16	J
77-47-4	Hexachlorocyclopentadiene	490	U	400	U	440	U	430	U	470	U
88-06-2	2,4,6-Trichlorophenol	490	U	400	U	440	U	430	U	470	U
95-95-4	2,4,5-Trichlorophenol	1200	U	1000	U	1100	U	1100	U	1200	U
91-58-7	2-Chloronaphthalene	490	U	400	U	440	U	430	U	470	U
88-74-4	2-Nitroaniline	1200	U	1000	U	1100	U	1100	U	1200	U
131-11-3	Dimethylphthalate	490	U	400	U	440	U	430	U	470	U
208-96-8	Acenaphthylene	9	J	400	U	440	U	430	U	470	U
606-20-2	2,6-Dinitrotoluene	490	U	400	U	440	U	430	U	470	U
99-09-2	3-Nitroaniline	1200	U	1000	U	1100	U	1100	U	1200	U
83-32-9	Acenaphthene	490	U	400	U	440	U	430	U	39	J

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Soil Samples  
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SS06		SS07		SS08		SS09		SS10		SS11		SS12		SS13	
Concentration	Q	Concentration	Q												
400	U	420	U	410	U	1400	U	420	U	440	U	62	BJ	460	U
400	U	420	U	410	U	1400	U	420	U	440	U	410	U	460	U
400	U	420	U	410	U	1400	U	420	U	440	U	410	U	460	U
400	U	420	U	410	U	1400	U	420	U	440	U	410	U	460	U
400	U	420	U	410	U	1400	U	420	U	440	U	22	J	460	U
400	U	420	U	410	U	1400	U	420	U	440	U	410	U	460	U
400	U	420	U	410	U	1400	U	420	U	440	U	410	U	460	U
400	U	420	U	410	U	1400	U	420	U	440	U	410	U	460	U
400	U	420	U	410	U	1400	U	420	U	440	U	410	U	460	U
400	U	420	U	410	U	1400	U	420	U	440	U	410	U	460	U
400	U	420	U	410	U	1400	U	420	U	440	U	410	U	460	U
400	U	420	U	410	U	1400	U	420	U	440	U	410	U	460	U
400	U	420	U	410	U	1400	U	420	U	440	U	410	U	460	U
400	U	420	U	410	U	1400	U	420	U	440	U	410	U	460	U
400	U	420	U	410	U	1400	U	420	U	440	U	410	U	460	U
400	U	420	U	410	U	1400	U	420	U	440	U	410	U	460	U
400	U	420	U	410	U	1400	U	420	U	440	U	410	U	460	U
400	U	420	U	410	U	1400	U	420	U	440	U	410	U	460	U
400	U	420	U	410	U	1400	U	420	U	440	U	410	U	460	U
400	U	420	U	410	U	1400	U	420	U	440	U	410	U	460	U
400	U	420	U	410	U	1400	U	420	U	440	U	410	U	460	U
400	U	420	U	410	U	1400	U	420	U	440	U	23	J	460	U
400	U	420	U	410	U	63	J	420	U	440	U	410	U	460	U
400	U	420	U	410	U	1400	U	420	U	440	U	410	U	460	U
400	U	420	U	410	U	1400	U	420	U	440	U	410	U	460	U
400	U	420	U	410	U	1400	U	420	U	440	U	410	U	460	U
400	U	420	U	410	U	1400	U	420	U	440	U	40	J	460	U
400	U	420	U	410	U	55	J	420	U	440	U	15	J	460	U
400	U	420	U	410	U	1400	U	420	U	440	U	410	U	460	U
400	U	420	U	410	U	1400	U	420	U	440	U	410	U	460	U
1000	U	1100	U	1000	U	3500	U	1100	U	1100	U	1000	U	1200	U
400	U	420	U	410	U	1400	U	420	U	440	U	410	U	460	U
1000	U	1100	U	1000	U	3500	U	1100	U	1100	U	1000	U	1200	U
400	U	420	U	410	U	1400	U	420	U	440	U	410	U	460	U
400	U	420	U	410	U	1400	U	420	U	440	U	410	U	460	U
400	U	420	U	410	U	1400	U	420	U	440	U	410	U	460	U
1000	U	1100	U	1000	U	3500	U	1100	U	1100	U	1000	U	1200	U
400	U	420	U	410	U	200	J	420	U	440	U	30	J	460	U

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Soil Samples  
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SS14		SS15		SS16		RBC (EPA,1996)	
Concentration	Q	Concentration	Q	Concentration	Q	Concentration	Q
31	BJ	490	U	420	U	47000000	
420	U	490	U	420	U	580	
420	U	490	U	420	U	390000	
420	U	490	U	420	U	7000000	
420	U	490	U	420	U	27000	
420	U	490	U	420	U	7000000	
420	U	490	U	420	U	39000000	
420	U	490	U	420	U		
420	U	490	U	420	U	390000	
420	U	490	U	420	U	910	
420	U	490	U	420	U	46000	
420	U	490	U	420	U	39000	
420	U	490	U	420	U	670000	
420	U	490	U	420	U	4800000	
420	U	490	U	420	U	1600000	
420	U	490	U	420	U		
420	U	490	U	420	U	230000	
420	U	490	U	420	U	780000	
420	U	490	U	420	U		
420	U	490	U	420	U	310000	
420	U	490	U	420	U	8200	
420	U	490	U	420	U		
420	U	490	U	420	U		
420	U	490	U	420	U	550000	
420	U	490	U	420	U	58000	
1100	U	1200	U	1100	U	7800000	
420	U	490	U	420	U	6300000	
1100	U	1200	U	1100	U	4700	
420	U	490	U	420	U	780000000	
420	U	490	U	420	U		
420	U	490	U	420	U	78000	
1100	U	1200	U	1100	U	230000	
420	U	490	U	420	U		

ORIGINAL  
(Red)

Soil Samples  
SABA 66

**TCL BNA**

SS=Soil Sample, SW=Water Sample

Concentration Units: (ug/L or ug/Kg) UG/KG

CAS No.	COMPOUND	SS01		SS02		SS03		SS04		SS05	
		Concentration	Q								
51-28-5	2,4 - Dinitrophenol	1200	U	1000	U	1100	U	1100	U	1200	U
100-02-7	4-Nitropheno	1200	U	1000	U	1100	U	1100	U	1200	U
132-64-9	Dibenzofuran	490	U	400	U	440	U	430	U	35	J
121-14-2	2,4 -Dinitrotoluene	490	U	400	U	440	U	430	U	470	U
84-66-2	Diethylphthalate	490	U	400	U	440	U	430	U	470	U
7005-72-3	4 - Chlorophenyl-phenylethe	490	U	400	U	440	U	430	U	470	U
86-73-7	Fluorene	490	U	400	U	440	U	430	U	40	J
100-01-06	4 - Nitroaniline	1200	U	1000	U	1100	U	1100	U	1200	U
534-52-1	4, 6 - Dinitro-2-methylphenol	1200	U	1000	U	1100	U	1100	U	1200	U
86-30-6	N-Nitrosodiphenylamine (1	490	U	400	U	440	U	430	U	470	U
101-55-3	4 - Bromophenyl-phenylether	490	U	400	U	440	U	430	U	470	U
118-74-1	Hexachlorobenzene	490	U	400	U	440	U	430	U	470	U
87-86-5	Pentachlorophenol	1200	U	1000	U	1100	U	1100	U	1200	U
85-01-8	Phenanthrene	160	J	400	U	440	U	6	J	460	J
120-12-7	Anthracene	490	U	400	U	440	U	430	U	69	J
86-74-8	Carbazole	16	J	400	U	440	U	430	U	49	J
84-74-2	Di-n-butylphthalate	250	BJ	110	BJ	230	BJ	150	BJ	210	BJ
206-44-0	Fluoranthene	280	J	400	U	17	J	11	J	450	J
129-00-0	Pyrene	250	J	400	U	15	J	12	J	330	J
85-68-7	Butylbenzylphthalate	41	J	400	U	440	U	430	U	470	U
91-94-1	3,3' -Dichlorobenzidine	490	U	400	U	440	U	430	U	470	U
56-55-3	Benzo (a) anthracene	120	J	400	U	440	U	430	U	170	J
218-01-9	Chrysene	160	J	400	U	440	U	430	U	200	J
117-81-7	bis (2-Ethylhexyl) phthalate	140	J	400	U	440	U	430	U	470	U
117-84-0	Di-n-octylphthalate	490	U	400	U	440	U	430	U	470	U
205-99-2	Benzo (b) fluoranthene	250	J	400	U	440	U	430	U	210	J
207-08-9	Benzo (k) fluoranthene	60	J	400	U	440	U	430	U	61	J
50-32-8	Benzo (a) pyrene	120	J	400	U	440	U	430	U	130	J
193-39-5	Indeno (1,2,3 - cd) pyrene	110	J	400	U	440	U	430	U	110	J
53-70-3	Dibenz (a, h) anthracene	490	U	400	U	440	U	430	U	470	U
191-24-2	Benzo (g,h,l) perylene	89	J	400	U	440	U	430	U	100	J

ORIGINAL (Red)

Soil Samples  
SABA 66

SS06		SS07		SS08		SS09		SS09RE		SS10		SS11		SS12	
Concentration	Q	Concentration	Q	Concentration	Q	Concentration	Q	Concentration	Q	Concentration	Q	Concentration	Q	Concentration	Q
1000	U	1100	U	1000	U	3500	U	3500	U	1100	U	1100	U	1000	U
1000	U	1100	U	1000	U	3500	U	3500	U	1100	U	1100	U	1126	J
400	U	420	U	410	U	170	J	200	J	420	U	440	U	410	U
400	U	420	U	410	U	1400	U	1400	U	420	U	440	U	410	U
400	U	420	U	410	U	1400	U	1400	U	420	U	440	U	410	U
400	U	420	U	410	U	1400	U	1400	U	420	U	440	U	410	U
400	U	420	U	410	U	350	U	420	J	420	U	440	U	410	U
1000	U	1100	U	1000	U	3500	U	3500	U	1100	U	1100	U	1000	U
1000	U	1100	U	1000	U	3500	U	3500	U	1100	U	1100	U	1000	U
400	U	420	U	410	U	1400	U	1400	U	420	U	440	U	410	U
400	U	420	U	410	U	1400	U	1400	U	420	U	440	U	410	U
400	U	420	U	410	U	1400	U	1400	U	420	U	440	U	410	U
1000	U	1100	U	1000	U	3500	U	3500	U	1100	U	1100	U	69	J
11	J	6	J	410	U	2400		2900		420	U	20	J	410	U
400	U	420	U	410	U	410	J	530	J	420	U	440	U	410	U
400	U	420	U	410	U	170	J	200	J	420	U	440	U	410	U
160	BJ	130	BJ	130	BJ	300	J	370	J	260	BJ	150	BJ	230	BJ
21	J	11	J	410	U	2200		2500		420	U	37	J	410	U
18	J	24	J	410	U	2400		2900		54	J	33	J	34	J
400	U	420	U	410	U	1400	U	1400	U	420	U	440	U	410	U
400	U	420	U	410	U	1400	U	1400	U	420	U	440	U	410	U
400	U	420	U	410	U	1200	J	1400	U	420	U	440	U	410	U
400	U	420	U	410	U	960	J	1100	J	420	U	440	U	410	U
400	U	420	U	410	U	780	J	840	J	420	U	440	U	410	U
400	U	420	U	410	U	1400	U	1400	U	420	U	440	U	410	U
400	U	420	U	410	U	1300	J	1500		420	U	440	U	410	U
400	U	420	U	410	U	500	J	600	J	420	U	440	U	410	U
400	U	420	U	410	U	710	J	740	J	36	J	440	U	410	U
400	U	420	U	410	U	600	J	1000	J	420	U	440	U	410	U
400	U	420	U	410	U	1400	U	1400	U	420	U	440	U	410	U
400	U	420	U	410	U	1400	U	1400	U	420	U	440	U	410	U

Original  
Copy

Soil Samples  
SABA 66

SS13		SS14		SS15		SS16		RBC (EPA,1996)	
Concentration	Q	Concentration	Q	Concentration	Q	Concentration	Q	Concentration	Q
1200	U	1100	U	1200	U	1100	U	160000	U
1200	U	1100	U	1200	U	1100	U	4800000	U
460	U	420	U	490	U	420	U	310000	U
460	U	420	U	490	U	420	U	160000	U
460	U	420	U	490	U	420	U	63000000	U
460	U	420	U	490	U	420	U		U
460	U	420	U	490	U	420	U		U
1200	U	1100	U	1200	U	1100	U	230000	U
1200	U	1100	U	1200	U	1100	U		U
460	U	420	U	490	U	420	U	130000	U
460	U	420	U	490	U	420	U	4500000	U
460	U	420	U	490	U	420	U	400	U
1200	U	1100	U	1200	U	1100	U	5300	U
460	U	420	U	11	J	420	U		U
460	U	420	U	490	U	420	U		U
460	U	420	U	490	U	420	U		U
130	BJ	250	BJ	190	BJ	130	BJ		BJ
7	J	420	U	18	J	420	U		U
460	U	9	J	90	J	33	J		J
460	U	420	U	490	U	420	U	16000000	U
460	U	420	U	490	U	420	U	1400	U
460	U	420	U	490	U	420	U		U
460	U	420	U	490	U	420	U		U
460	U	420	U	490	U	420	U	46000	U
460	U	420	U	490	U	420	U	1600000	U
460	U	420	U	490	U	420	U		U
460	U	420	U	490	U	420	U		U
460	U	420	U	150	J	56	J		J
460	U	420	U	75	J	420	U		U
460	U	420	U	490	U	420	U		U
460	U	420	U	920		410	J		J

ORIGINAL

SABA Parcel 66  
Maple Point, Bucks, PA

TDD No. 9604-05  
Contract No. 68-S5-3002

ORIGINAL  
(Red)

ATTACHMENT 2 WATER SAMPLES

Water Sample  
SABA 66

Chemical  
Test

**TAL METALS**

WS = Water Sample

Concentration Units: ug/L

CAS No.	Analyte	WS01		RBC (EPA,1996)
		Concentration	C	Concentration
7429-90-5	Aluminum	68300.00		37000.00
7440-36-0	Antimony			15.00
7440-38-2	Arsenic	27.20		11.00
7440-39-3	Barium	220.00	B	2600.00
7440-41-7	Beryllium	5.30	B	0.02
7440-43-9	Cadmium			18.00
7440-70-2	Calcium	13300.00		
7440-47-3	Chromium	45.30		37000.00
7440-48-4	Cobalt	43.90	B	2200.00
7440-50-8	Copper	34.40		1500.00
7439-89-6	Iron	43500.00		11000.00
7439-92-1	Lead	19.00		30.00
7439-95-4	Magnesium	14400.00		
7439-96-5	Manganese	911.00		840.00
7439-97-6	Mercury	0.18	B	11.00
7440-02-0	Nickel	22.20	B	730.00
7440-09-7	Potassium	16800.00		
7782-49-2	Selenium	11.40		180.00
7440-22-4	Silver			180.00
7440-23-5	Sodium	23100.00		
7440-28-0	Thallium			
7440-62-2	Vanadium	59.40		260.00
7440-66-6	Zinc	49.00		11000.00
	Cyanide			

Water Sample  
SABA 66

ORIGINAL  
(Redy)

TCL VOA

WS=Water Sample

Concentration Units: UG/L

CAS NO.	COMPOUND	WS01		RBC (EPA,1996)	
		Concentration	Q	Concentration	
74-87-3	Chloromethane	10	U	1.40	
74-83-9	Bromomethane	10	U	8.70	
75-01-4	Vinyl Chloride	10	U	0.02	
75-00-3	Chloroethane	10	U	8600.00	
75-09-2	Methylene Chloride	10	U	4.10	
67-64-1	Acetone	10	U	3700.00	
75-15-0	Carbon Disulfide	10	U	1000.00	
75-35-4	1,1-Dichloroethene	10	U	0.04	
75-34-3	1,1-Dichloroethane	10	U	810.00	
540-59-0	1,2-Dichloroethene (total)	10	U	55.00	
67-66-3	Chloroform	10	U	0.15	
107-06-2	1,2-Dichloroethane	10	U	0.12	
78-93-3	2-Butanone	10	U		
71-55-6	1,1,1-Trichloroethane	10	U	790.00	
56-23-5	Carbon Tetrachloride	10	U	0.16	
75-27-4	Bromodichloromethane	10	U	0.17	
78-87-5	1,2-Dichloropropane	10	U	0.16	
10061-01-5	cis-1,3-Dichloropropene	10	U	0.08	
79-01-6	Trichloroethene	10	U	1.60	
124-48-1	Dibromochloromethane	10	U		
79-00-5	1,1,2-Trichloroethane	10	U	0.19	
71-43-2	Benzene	10	U	0.36	
10061-02-6	trans-1,3-Dichloropropene	10	U	0.08	
75-25-2	Bromoform	10	U	2.40	
108-10-1	4-Methyl-2-Pentanone	10	U		
591-78-6	2-Hexanone	10	U		
127-18-4	Tetrachloroethene	10	U	1.10	
79-34-5	1,1,2,2-Tetrachloroethane	10	U	0.05	
108-88-3	Toluene	10	U	750.00	
108-90-7	Chlorobenzene	10	U	39.00	
100-41-4	Ethylbenzene	10	U	1300.00	
100-42-5	Styrene	10	U	1600.00	
1330-20-7	Xylene (total)	10	U	12000.00	

SABA Parcel 66  
Maple Point, Bucks, PA

TDD No. 9604-05  
Contract No. 68-S5-3002

ORIGINAL  
RECEIVED

ATTACHMENT 3 AIR SAMPLES

Air Samples  
SABA 66

TCL VOA

AS = Air Sample

Concentration Units: PPB

COMPOUND	AS01	AS02	AS03	AS04	AS05	RBC (EPA,1996)
	Concentration	Concentration	Concentration	Concentration	Concentration	Concentration
Acetone	11.00	30.00	9.30	29.00	19.00	62000.00
Toluene	7.00	6.20	3.00	3.50	2.50	520.00
Ethylbenzene	1.30	1.00	ND	ND	ND	260.00
Xylenes	8.20	6.80	5.00	5.20	3.90	320.00
Styrene	1.40	1.20	0.77	1.10	0.63	1400.00

11  
DRAFT  
09/20/2014

SABA Parcel 66  
Maple Point, Bucks, PA

TDD No. 9604-05  
Contract No. 68-S5-3002

CONFIDENTIAL  
DO NOT REPRODUCE

ATTACHMENT 4 DATA QUALITY REPORT



5 Underwood Court, Delran, New Jersey 08075-1229  
609-461-4003 • 215-238-0338 • Fax 609-461-4916

ORIGINATED  
FILED

SITE ASSESSMENT TECHNICAL ASSISTANCE

EPA CONTRACT 68-S5-3002

13 November 1996

Mr. Stephen Jarvela (3HW31)  
On-Scene Coordinator  
U.S. Environmental Protection Agency  
841 Chestnut Building  
Philadelphia, PA 19107

TDD No. 9604-05  
DCN B0000619

Subject: SABA Parcel 66 Site Data Quality Report

Dear Mr. Jarvela:

Enclosed is the SABA Parcel 66 Site Data Quality Report for your review. Please feel free to contact me at (215) 238-0338, Ext. 243 regarding any aspect of this report.

Very truly yours,

ROY F. WESTON, INC.

*Marian Murphy*

Marian Murphy  
Quality Assurance Officer

cc: TDD File

c:\sabaparcel66-2dql

Roy F. Weston, Inc.

FEDERAL PROGRAMS DIVISION

In Association with Foster Wheeler Environmental Corporation; Resource Applications, Inc.; C.C. Johnson & Malhotra, P.C.; and PRC Environmental Management, Inc.

# DATA QUALITY REPORT

SABA PARCEL 66  
MIDDLETON, BUCKS COUNTY, PENNSYLVANIA      TDD No. 9604-05  
EPA CONTRACT No. 68-S5-3002

## 1.0 INTRODUCTION

---

This report provides a general review of the data package submitted by DataChem Laboratories, for 1 water sample, 16 soil samples, and 5 air samples collected at the Saba Parcel 66 Site in Middleton, Bucks County, Pennsylvania, from 23 to 26 September 1996. The samples were received at DataChem Laboratories, in Salt Lake City, Utah, on 24 and 27 September 1996. The following analyses were requested: Target Analyte List (TAL) metals for the soil and water samples; Target Compound List (TCL) volatile organics for the soil, water, and air samples; and semivolatile organics for the soil samples.

## 2.0 ANALYTICAL METHODOLOGY

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The samples were analyzed for TAL metals in accordance with the U.S. Environmental Protection Agency (EPA) Contract Laboratory Program Statement of Work (CLP SOW) ILM04.0. The TCL volatile organics and semivolatile organics for both the soil and water samples were analyzed in accordance with CLP SOW OLC03.1. The volatile organics in air were analyzed in accordance with EPA Compendium of Methods for the *Determination of Toxic Organic Compounds in Air*, EPA 600/4-89/07, 1989, Method T014.

## 3.0 COMMENTS

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### 3.1 Chain-of-Custody Records

Signed chain-of-custody records were received.

### 3.2 Volatile Organics (Soil and Water Samples)

- The holding times were met.
- The gas chromatograph/mass spectrometer (GC/MS) tuning data and internal standards data met quality control (QC) criteria.
- The method blank for the water sample was free of contamination. The method blank for the soil samples contained methylene chloride at 0.3  $\mu\text{g}/\text{kg}$ . The methylene chloride concentration detected in the soil samples were all non-detects, except for Sample SS-16, which was less than ten times the blank concentration; therefore, the methylene chloride result for Sample SS-16 should be qualified as "B" or blank contamination.

- The initial calibration data met QC criteria. The continuing calibration data did ~~not~~ meet the percent difference (%D) QC criteria for acetone and 2-butanone. Acetone and 2-butanone were greater than 25%D. Qualify all positive acetone results as "J" or approximate. The samples did not contain 2-butanone; therefore, no data were qualified.
- The surrogate spike recoveries, matrix spike/matrix spike duplicate (MS/MSD) recoveries, and relative percent difference (RPD) values met QC criteria.

Accept the volatile organics data for the water and soil samples as presented with the qualifiers stated above.

### 3.3 Volatile Organics in Air

- The holding times were met.
- The GC/MS tuning data and internal standards data met QC criteria.
- The initial and continuing calibration data met QC criteria.
- The method blank was free of contamination.
- The MS/MSD recoveries, and RPD values met QC criteria.

Accept the volatile organics data for the air samples as presented.

### 3.4 Semivolatile Organics

- The holding times were met.
- The initial calibration data met QC criteria for all compounds. The continuing calibration data did not meet QC criteria for benzo(g,h,i)perylene. The percent difference (%D) criteria for benzo(g,h,i)perylene for Sample SS-15 did not meet QC criteria. Qualify the benzo(g,h,i)perylene result for Sample SS-15 as "J" or approximate.
- The GC/MS tuning data and internal standards data met QC criteria.
- The method blank contained phenol at 50 µg/kg, and di-n-butylphthalate at 190 µg/kg. The phenol and di-n-butylphthalate concentrations detected in some samples were less than five times the blank concentration. All positive results for phenol and di-n-butylphthalate were previously qualified as "JB" by the laboratory. Therefore, qualify any phenol or di-n-butylphthalate results, qualified as "JB" by the laboratory, as "B" or blank contamination.

- The surrogate spike recoveries, MS/MSD recoveries and RPD values met QC criteria.

Accept the semivolatile data with the exceptions stated above.

### 3.5 TAL Metals

- The hold times were met for all metal analyses.
- The initial and continuing calibration data met QC criteria.
- The method blank for the water sample contained selenium at  $3.17 \mu\text{g/L}$ . The selenium result for the water sample (WS-01) was less than five times the blank concentration; therefore, qualify the selenium result for Sample WS-01 as "B" or blank contamination.
- The method blank for the soil samples contained lead at  $4.0 \mu\text{g/kg}$  and sodium at  $3.91 \mu\text{g/kg}$ . Samples SS-02, SS-06, SS-07, SS-08, SS-10, SS-12, SS-13, SS-14, SS-15, and SS-16 contained lead at less than five times the blank concentration; therefore, qualify the lead results for these samples as "B" or blank contamination. Samples SS-04 and SS-13 contained sodium at less than five times the blank concentration; therefore, qualify the sodium results for Samples SS-04 and SS-13 as "B" or blank contamination.
- The continuing calibration blank for the soil samples contained beryllium at  $0.1 \mu\text{g/L}$ . Sample SS-01 contained beryllium at less than five times the continuing calibration blank concentration; therefore, qualify the beryllium result for Sample SS-01 as "B" or blank contamination.
- The laboratory control sample and Inductively Coupled Plasma (ICP) serial dilution standard met QC criteria.
- The samples were analyzed for all metals, except mercury, by Trace ICP; therefore, no furnace analysis was needed.
- The MS recoveries, RPD values and contract required detection limit (CRDL) standard recoveries did not meet QC criteria for several metals for both the soil and water analysis. Listed in the table on pages five and six of the Summary Section are the metals qualifiers applied to the samples due to MS recoveries, RPD, values and CDRL recoveries not meeting QC criteria, as well as the applied blank qualifiers.

Accept the metals data with the exceptions stated above.

#### 4.0 SUMMARY

This data package was reviewed in accordance with EPA Region III *Modifications to National Functional Guidelines for Organic and Inorganic Data Review*, September 1994. Listed below are the qualifiers applied during data validation.

- Qualify the methylene chloride results for Sample SS-16 as "B" or blank contamination.
- Qualify all positive acetone results for the soil samples and the water sample as "J" or approximate.
- Qualify all phenol or di-n-butylphthalate results, qualified as "JB" by the laboratory, as "B" or blank contamination.
- Qualify the benzo(g,h,i)perylene result for Sample SS-15 as "J" or approximate.
- The metals results for the samples, with their resultant qualifiers, are presented in the table on pages five and six.

ORIGINAL  
(red)

Metals Results With Associated Data Qualifiers  
SABA Parcel 66  
Middletown, Bucks Co., PA  
September 1996

SOIL CRDL (mg/kg)	SAMPLE #	SS-01	SS-02	SS-03	SS-04	SS-05	SS-06	SS-07	SS-08	SS-09	SS-10
	Lab ID #	5475	5476	5477	5478	5479	5480	5481	5482	5483	5484
	% SOLIDS	67.1	81.9	74.8	77.3	70.3	81.3	79.0	79.5	71.6	78.9
	ANALYTE	mg/kg									
40	Aluminum	6640	7780	9040	8590	7190	10500	7700	11500	10100	14200
12	Antimony	8.9	J	6.0	UL	6.5	UL	6.3	UL	6.0	UL
2	Arsenic	10.1		3.6		4.5		3.9		4.4	
40	Barium	44.0		40.4		71.6		65.6		52.0	
1	Beryllium	0.07	B	0.41	K	0.30	K	0.32	K	0.21	K
1	Cadmium	0.83	UJ	0.68	UJ	0.75	UJ	0.72	UJ	0.80	UJ
1000	Calcium	233		203		152		111		670	
2	Chromium	14.2		19.3		12.6		11.9		9.9	
10	Cobalt	3.4	K	4.8	K	4.6	K	3.2	K	4.4	K
5	Copper	21.3		7.6		3.4		2.9		10.1	
20	Iron	11700		16100		12000		12300		10300	
0.6	Lead	136		7.5	B	26.2		25.6		41.6	
1000	Mangnesium	596		1480		725		665		771	
3	Manganese	29.7		50.1		115		52.1		118	
0.04	Mercury	0.17		0.06	U	0.07	U	0.08		0.08	
8	Nickel	5.1	U	8.0	K	6.2	K	4.9	K	4.9	U
1000	Potassium	275		426		316		214	B	236	U
1	Selenium	1.9	L	0.51	UL	0.57	L	0.54	UL	0.90	L
2	Silver	1.1	U	0.90	U	1.1	K	0.96	U	1.1	U
1000	Sodium	34.5		45.8		30.4		21.0	B	49.4	
2	Thallium	1.3	U	1.0	U	1.1	U	1.1	U	1.2	U
10	Vanadium	33.5		29.3		21.2		21.5		20.7	
4	Zinc	31.5		25.4		25.5		21.9		46.0	

U = Not Detected, Value Indicates Detection Limit

CRDL = Contract Required Detection Limit

L = Biased Low

J = Approximate

UL = Detection Limit Biased Low

K = Biased High

ORIGINAL  
(Rev)

## Metals Results With Associated Data Qualifiers

SABA Parecl 66

Middletown, Bucks Co., PA

September 1996

SOIL CRDL (mg/kg)	SAMPLE # Lab ID # % SOLIDS ANALYTE	SS-11	SS-12	SS13	SS-14	SS-15	SS-16	WS-01	WATER CRDL (ug/L)
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	ug/L	
		5514	5515	5485	5486	5487	5488	5513	
40	Aluminum	5150	7840	7650	15000	6590	13700	68300	J 200
12	Antimony	6.5	UL	6.0	UL	8.2	UL	6.2	UL 27.1 UJ 60
2	Arsenic	6.3		7.1		4.3		7.7	
40	Barium	46.1		45.4		39.6		48.3	
1	Beryllium	0.18	K	0.23	K	0.29	K	0.32	K 5.3 5
1	Cadmium	0.75	UJ	0.69	UJ	0.78	UJ	0.71	UJ 3.1 UL 5
1000	Calcium	375		499		345		635	
2	Chromium	9.2		13.0		13.2		28.2	
10	Cobalt	3.6	K	4.0	K	3.7	K	3.8	K 43.9 K 50
5	Copper	6.2		2.7		4.9		8.7	
20	Iron	10200		20000		12600		28600	
0.6	Lead	36.8		10.3	B	21.4	B	10.9	B 19.0 3
1000	Mangnesium	585		811		877		1790	
3	Manganese	118		81.5		35.9		49.4	
0.04	Mercury	0.07	U	0.06	U	0.07	U	0.06	U 0.18 0.2
8	Nickel	4.6	U	4.2	U	5.3	K	8.2	K 7.3 K 22.2 40
1000	Potassium	222	U	245		231	U	515	
1	Selenium	0.57	L	0.52	UL	0.58	UL	0.53	UL 11.4 B 5
2	Silver	0.99	U	0.91	U	1.0	U	0.93	U 0.94 U 4.1 U 10
1000	Sodium	37.9		48.6		25.4	B	40.0	
2	Thallium	1.1	U	1.0	U	1.2	U	1.1	U 1.1 U 4.7 U 10
10	Vanadium	20.7		26.3		22.5		40.9	
4	Zinc	34.3		14.7		27.1		27.8	
								24.5	
								26.8	
								49.0	
									20

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ORIGINAL  
(Rev)

## Metals Results With Associated Data Qualifiers

SABA Parecl 66

Middletown, Bucks Co., PA

September 1996

SOIL CRDL (mg/kg)	SAMPLE # Lab ID # % SOLIDS ANALYTE	SS-11	SS-12	SS13	SS-14	SS-15	SS-16	WS-01	WATER CRDL (ug/L)
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	ug/L	
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	(ug/L)	
40	Aluminum	5150	7840	7650	15000	6590	13700	68300	J 200
12	Antimony	6.5	UL	6.0	UL	8.2	UL	6.2	UL 27.1 UJ 60
2	Arsenic	6.3		7.1		4.3		7.7	
40	Barium	46.1		45.4		39.6		48.3	
1	Beryllium	0.18	K	0.23	K	0.29	K	0.32	K 0.18 K 5.3 5
1	Cadmium	0.75	UJ	0.69	UJ	0.78	UJ	0.71	UJ 0.71 UJ 3.1 UL 5
1000	Calcium	375		499		345		635	
2	Chromium	9.2		13.0		13.2		28.2	
10	Cobalt	3.6	K	4.0	K	3.7	K	3.8	K 2.3 U 5.1 K 43.9 K 50
5	Copper	6.2		2.7		4.9		8.7	
20	Iron	10200		20000		12600		28600	
0.6	Lead	36.8		10.3	B	21.4	B	10.9	B 10.4 B 19.0 3
1000	Mangnesium	585		811		877		1790	
3	Manganese	118		81.5		35.9		49.4	
0.04	Mercury	0.07	U	0.06	U	0.07	U	0.06	U 0.08 U 0.06 U 0.18 0.2
8	Nickel	4.6	U	4.2	U	5.3	K	8.2	K 5.4 K 7.3 K 22.2 40
1000	Potassium	222	U	245		231	U	515	
1	Selenium	0.57	L	0.52	UL	0.58	UL	0.53	UL 1.1 UL 0.54 UL 11.4 B 5
2	Silver	0.99	U	0.91	U	1.0	U	0.93	U 1.1 U 0.94 U 4.1 U 10
1000	Sodium	37.9		48.6		25.4	B	40.0	
2	Thallium	1.1	U	1.0	U	1.2	U	1.1	U 1.3 U 1.1 U 4.7 U 10
10	Vanadium	20.7		26.3		22.5		40.9	
4	Zinc	34.3		14.7		27.1		27.8	

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FEDERAL  
PROGRAMS  
DIVISION

SABA PARCEL-66  
Midletown, Bucks County, PA

TDD#: 9605-43

CONTRACT NO.68-S5-3002

Official Map



Sampling Location Map - September 1996

NOT TO SCALE

Figure 1

SOURCE: April 4, 1996 Epic Overflight

## **DISCUSSION/RATIONALE:**

This site was alleged to be a dumping area for the developers of the Maple Point Housing Development. These allegations led to further site investigations. On September 23 and 26, 1996 the USEPA conducted a multimedia sampling event at the site. Sixteen soil, five air, and a water sample were collected. The samples were analyzed for Volatile Organics, Base, Neutral, Acid extractable (BNA), and Total Analyte List (TAL) metals.

The soil analysis revealed no contaminants above the USEPA's Risk Based Concentrations. None of the soil gas samples revealed hazardous substances above RBC values. Arsenic and Manganese were detected in the water sample. The USEPA has determined that the site would be qualified as No Further Remedial Actions Planned (NFRAP). This decision is based on the results of the 1996 sampling event.

**Report Reviewed by:** Peter Gold, ASAM

**Site Decision  
Made by:**

  
Peter Gold, ASAM

**Signature:**

**Date:** 02-11-99

EPA Form # 9100-3

# REMEDIAL SITE ASSESSMENT DECISION - EPA REGION 3

Site Name: SABA Parce, 36

EPA ID#: PA0001407105

DSN: PA-3249

Alias Site Names:

City: Maple Point

County: Bucks      State: PA

Refer to Report Dated: January 08, 1997

Report type: Trip Report

Report developed by: Roy F. Weston Inc.

ORIGINAL

## DECISION:

| x | 1. Further Remedial Site Assessment under CERCLA (Superfund) is not required because:

| x | 1a. Site does not qualify for further remedial | | 1b. Site may qualify for further | | RCRA  
site assessment under CERCLA action, but is deferred to: | | NRC  
(No Further Remedial Action Planned - NFRAP)

| | 2. Further Assessment Needed Under CERCLA:      2a. (optional) Priority: | | Higher | | Lower

2b. Activity      || PA      || ESI  
Type:      || SI      || HRS evaluation

| | Other: \_\_\_\_\_